

DAYLIGHT STUDIES

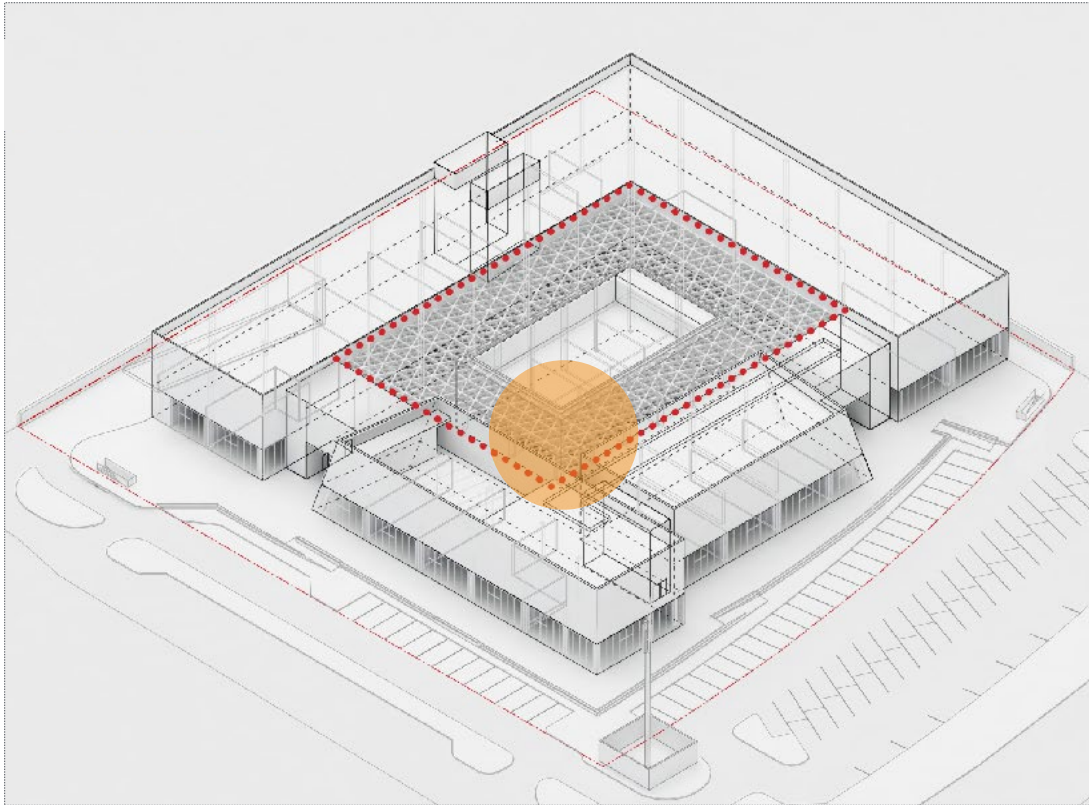
SHOPPING MALL DUBAI - UNITED ARAB EMIRATES



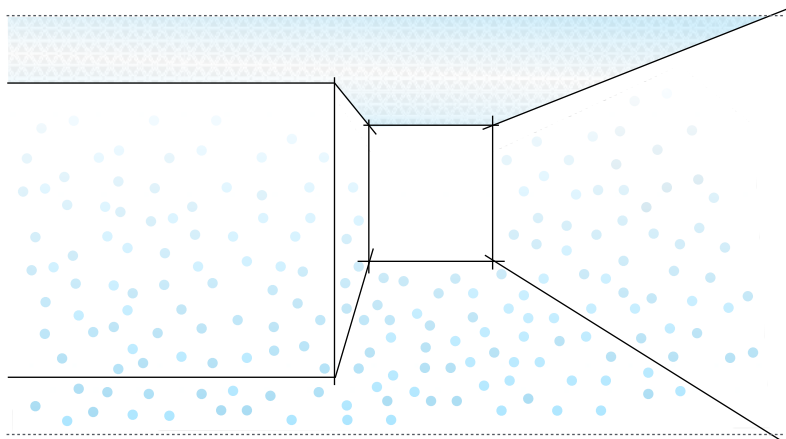








The aim of this study is to provide comfort level of daylight for occupants in courtyard space.



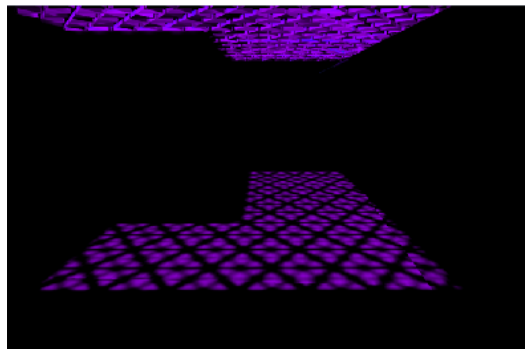
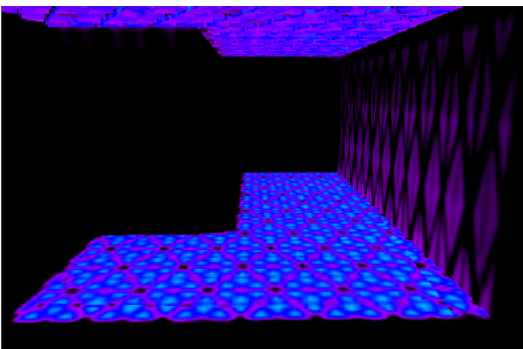
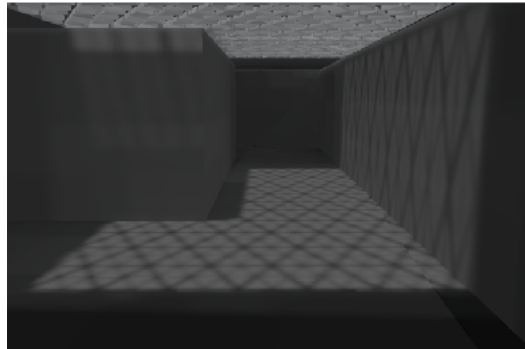
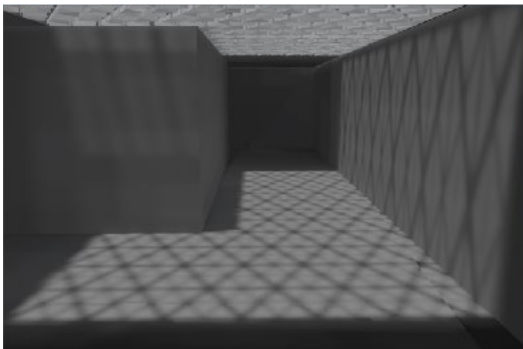
- The courtyard area pedestrian walkway and facades under the feature canopy are exposed to extreme sunlight.
- By choosing a different type of glass integrated to canopy structure could be able to block sunlight 70% and even 90%.



### Daylight Parameters

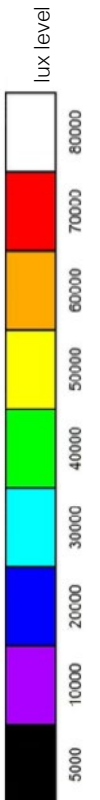
Location	Dubai
Longitude	55.30°
Latitude	25.30°
North Deviation	4.0°
Date	01.06.2016
Time	13:00:00
Reference Sky	Clear Sky

*The following daylight analysis shows the light intensity by applying sun blocking based on parameters in Dubai.*

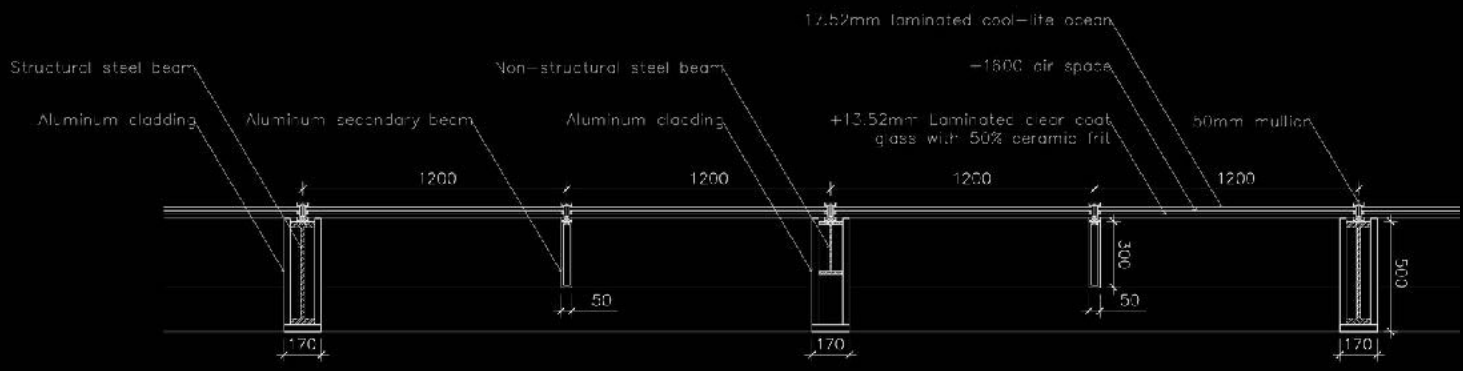


%70 Blocked Daylighting

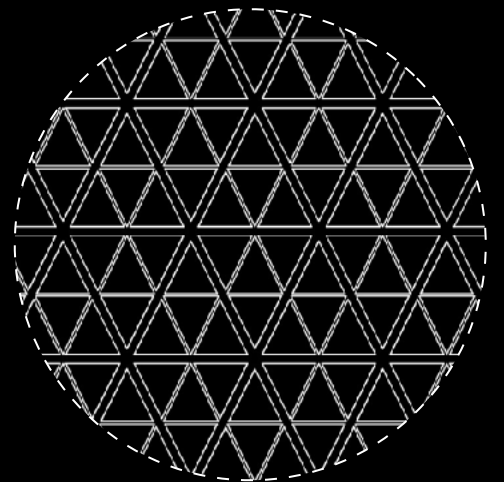
%90 Blocked Daylighting







FEATURE CANOPY KEY SECTION





**CONX**

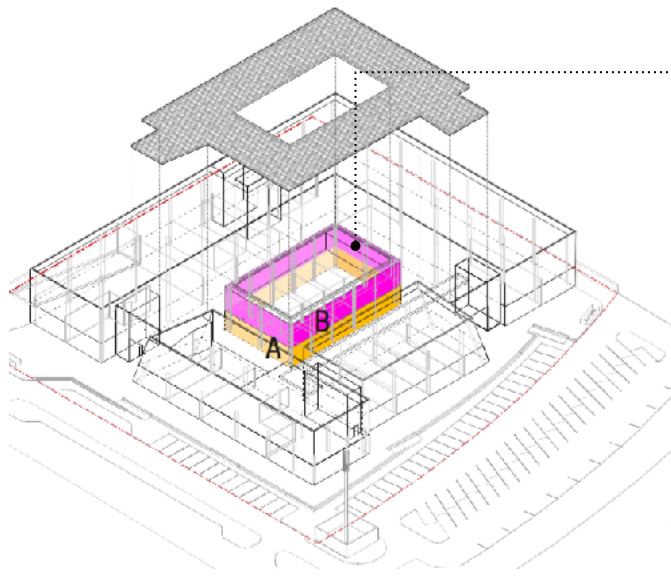
**INTO**

**ADVENTURE HQ**

**ADVENTURE HQ**

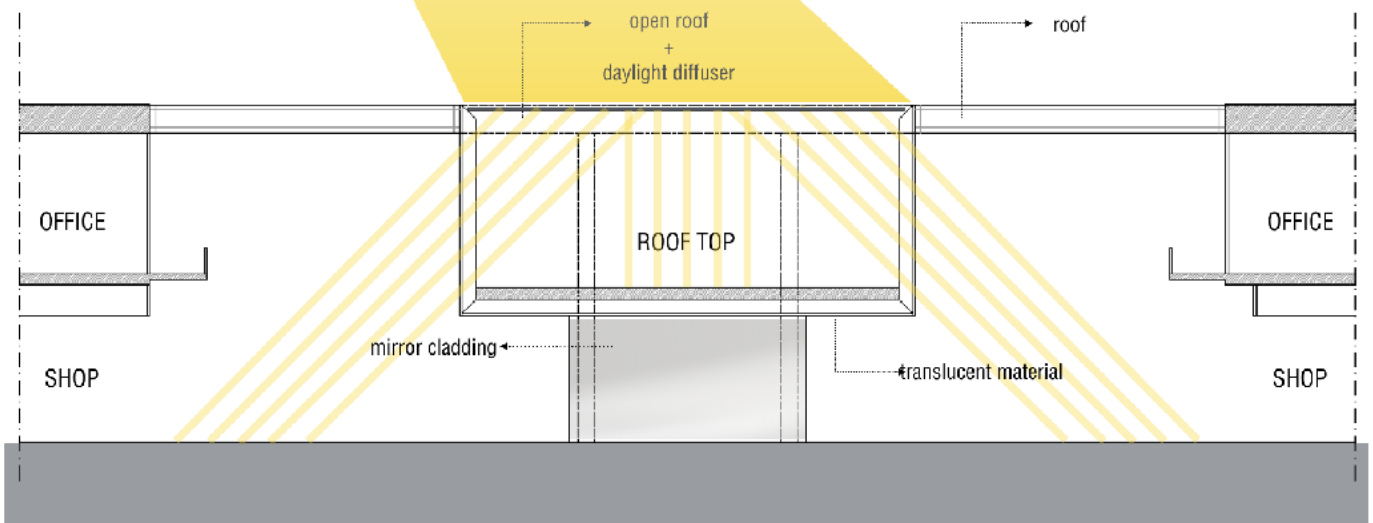
**ADVENTURE HQ**





→ The upper central core of the shopping area has been designed as an architectural lighting feature.

The usage of a polycarbonate translucent screen in combination with hidden vertical LED strips composes the element for lighting.



Day Lighting Concept



CAFFE  
NERO

CAFFE  
NERO

FLY SHOP

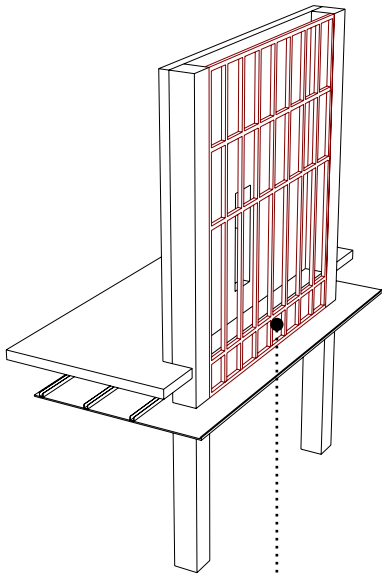




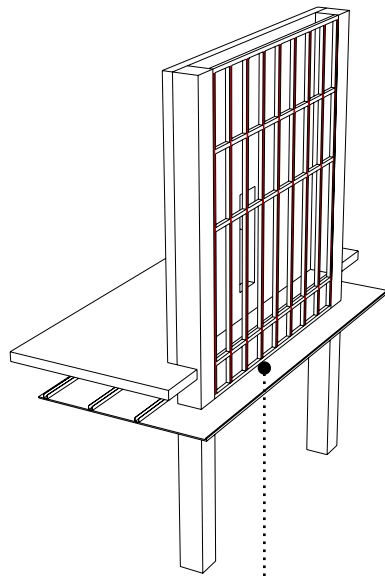
• structural layer

• lighting layer

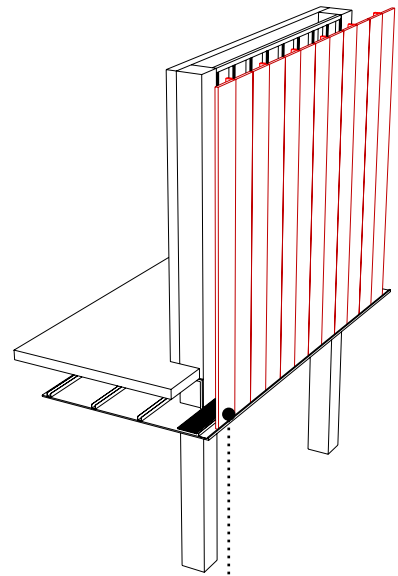
• facade layer



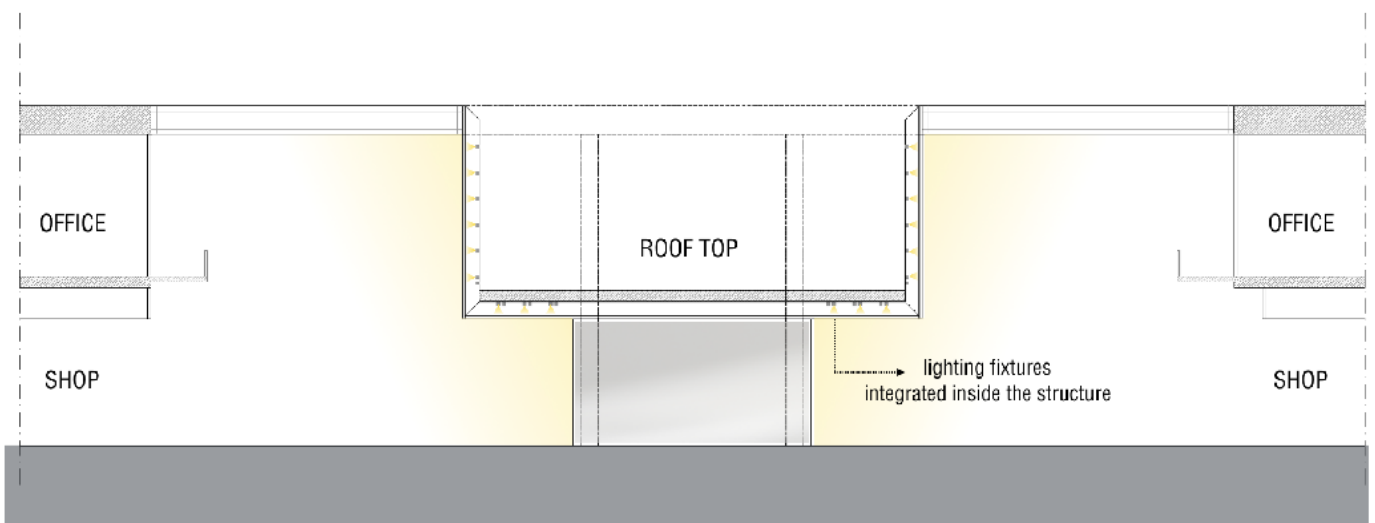
Metal Profile



LED strip  
placed on vertical profile



Polycarbonate panel



Night Lighting Concept





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